OctaNet Task 1

import java.util.Scanner;

class ATMMachine {

public static void main(String[] args) {

ATM atm = new ATM();

atm.checkPIN();

}

}

class ATM {

private float balance = 0;

private String transactionHistory = "";

private int PIN = 5369;

private Scanner scanner = new Scanner(System.in);

public void checkPIN() {

System.out.println("Enter your PIN:");

int enteredPIN = scanner.nextInt();

if (enteredPIN == PIN) {

menu();

} else {

System.out.println("Invalid PIN. Exiting...");

}

}

public void menu() {

int opt;

do {

System.out.println("\nEnter Your Choice:");

System.out.println("1. Account Balance Inquiry");

System.out.println("2. Cash Withdrawal");

System.out.println("3. Cash Deposit");

System.out.println("4. PIN Change");

System.out.println("5. View Transaction History");

System.out.println("0. Exit");

opt = scanner.nextInt();

switch (opt) {

case 1:

accountBalanceInquiry();

break;

case 2:

withdrawMoney();

break;

case 3:

depositMoney();

break;

case 4:

pinChange();

break;

case 5:

viewTransactionHistory();

break;

case 0:

System.out.println("Exiting ATM. Goodbye!");

break;

default:

System.out.println("Invalid Choice. Please try again.");

break;

}

} while (opt != 0);

scanner.close(); // Close the scanner when done

}

public void accountBalanceInquiry() {

System.out.println("Account Balance: " + balance);

}

public void withdrawMoney() {

System.out.println("Enter Amount to Withdraw:");

float amount = scanner.nextFloat();

if (amount > balance) {

System.out.println("Insufficient Balance");

} else {

balance -= amount;

System.out.println("Money Withdrawal Successful");

transactionHistory += "Withdrawal: " + amount + "\n";

}

}

public void depositMoney() {

System.out.println("Enter Amount to Deposit:");

float amount = scanner.nextFloat();

balance += amount;

System.out.println("Money Deposited Successfully");

transactionHistory += "Deposit: " + amount + "\n";

}

public void pinChange() {

System.out.println("Enter new PIN:");

PIN = scanner.nextInt();

System.out.println("PIN Changed Successfully");

}

public void viewTransactionHistory() {

System.out.println("Transaction History:");

System.out.println(transactionHistory);

}

}